

# **HAZARDOUS WASTE PERMIT**

**Permit Number SC3 210 020 449**

Issue Date: February 4, 2010  
Expiration Date: March 6, 2020

Effective Date: March 6, 2010  
Effective Date of Last Modified:

## **This Permit is hereby issued to:**

Owner/Operator: U.S Army Garrison, Fort Jackson  
(USATC and Fort Jackson)

Facility Contact: Barbara Williams

Address: Fort Jackson, South Carolina 29207

Phone: (803) 751-6858

This Permit is for storage of hazardous waste in one hazardous waste container storage building and identification and corrective action for solid waste management units (SWMUs) located at the USATC and Fort Jackson.

This Permit is issued pursuant to Section 44-56-10 et seq. Regulation 61-79 of the 1976 South Carolina Code of Laws, as amended. The authority granted hereunder is subject to the requirements of the aforementioned laws and regulations and the attached conditions.

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Richard Haynes, P.E., Director  
Division of Waste Management  
Bureau of Land and Waste Management

This Permit is the property of the Bureau of Land and Waste Management and must be surrendered on demand. This signature page must be posted at all times in a conspicuous place on the premises.

## **TABLE OF PERMIT MODIFICATIONS**

**U.S. Army Garrison, Fort Jackson**

**(USATC and Fort Jackson)**

**SC3 210 020 449**

**Richland County**

<b>Effective Date</b>	<b>Class</b>	<b>Location</b>	<b>Description of Change</b>
	III	Appendix A, Appendix A-1	Removal of SMWU 44 and Addition of AOC F, G, H, I, and J
	III	Appendix A, Appendix A-2	Addition of SMWU 44
	III	Appendix A, Appendix A-4	Removal of AOC D, E, F, G, H, I, J and Addition of AOC S and T
	III	Appendix A, Appendix A-6	Addition of AOC D and E, and SMWU 49
	III	Appendix A, Appendix A-7	Removal of SWMU 49

**APPENDIX A**

**SOLID WASTE MANAGEMENT UNITS  
(SWMUS)**

**SUMMARY**

## APPENDIX A - SOLID WASTE MANAGEMENT UNIT AND AREA OF CONCERN SUMMARY

**U.S. Army Garrison, Fort Jackson**  
**SC3 210 020 449**  
**Richland County**

Solid Waste Management Units and Area of Concern Numbers and descriptions correspond with those noted in the RCRA Facility Assessment (RFA) Report.

Appendix A-1 List of Solid Waste Management Units and Areas of Concern requiring an RFI.	
SWMU/AOC No/Letter	SWMU/AOC Name
SWMU 12	Wonson OB/OD Ground
SWMU 17	Inchon OB/OD Ground
SWMU 23	Remagen Impact Range
AOC F	Live Hand Grenade Court 2
AOC G	FTJA Flight Club (FJFC) Salerno Ranges
AOC H	FJFC Saint Lo Range
AOC I	Mortar Ranges 5a, 7, and 8 Safety Fans
AOC J	Submachine Gun Area

Appendix A-2 List of Solid Waste Management Units and Areas of Concern that require no further action at this time.	
SWMU/AOC No/Letter	SWMU/AOC Name
SWMU 4	WETSITE Landfill
SWMU 11	Waste Oil Tanks
SWMU 15	Veterinary Incinerator
SWMU 16	Former Sewage Treatment Plant
SWMU 18	Waste Solvent Cabinet
SWMU 19	TASC HW SAA
SWMU 20	PCB Storage Area
SWMU 22	Hospital Waste SAA
SWMU 24	Old Rocket Grenade Range
SWMU 27	Battery Storage Area
SWMU 28	Pesticide Storage Area
SWMU 29	Energy Plant Drainage Area
SWMU 30	Former Varsol UST
SWMU 31	Storm Sewer System
SWMU 32	Sanitary Sewer System
SWMU 33	Bldg 1611 Wash Pad & O/W Separator

SWMU 34	Bldg 2182 Wash Pad & O/W Separator
SWMU 35	Bldg 2075 Wash Pad & O/W Separator
SWMU 36	Bldg 1701 Wash Pad & O/W Separator
SWMU 37	Bldg 2525 Wash Pad & O/W Separator
SWMU 38	Bldg 9428 Wash Pad & O/W Separator
SWMU 39	Marine WETSITE Wash Pad
SWMU 40	NG Wash Pad & O/W Separator
SWMU 41	Vehicle Training Waste Oil Tank
SWMU 42	NG SAA
SWMU 43	Inactive NG Acid Neutralization Area
SWMU 45	Portable Waste Oil Tanks
SWMU 46	Dumpsters
SWMU 47	Former Roads & Grounds Storage Area
SWMU 51	Indoor Firing Range
SWMU 52	Former Tanks Repair Shop
AOC A	Former Tank 5453
AOC B	Tank 1619
AOC C	Shed 1617 Area
SWMU 44	WETSITE Septic Tank

#### Appendix A-3

List of Solid Waste Management Units which are also units under the operating portion of this permit.

SWMU/AOC No/Letter	SWMU/AOC Name
SWMU 25	DRMO HW Loading/Unloading Pad
SWMU 26	DRMO HW Storage Facility

#### Appendix A-4

List of Solid Waste Management Units and Areas of Concern requiring Confirmatory Sampling.

SWMU/AOC No/Letter	SWMU/AOC Name
AOC K	Soils Evaluation Adjacent to SWMU 21
AOC L	Bldg 2603 Paint Spray Booth SAA
AOC M	Bldg 4500 Moncreif Hospital Pathology Lab SAA
AOC N	Bldg 4500 Moncreif Hospital Chemotherapy Lab SAA
AOC O	Storage Bldg 2611 at DLE CSA
AOC P	Bldg 4500 Moncreif Hospital Storage Room in Basement CSA
AOC Q	MW 6-10
AOC R	Bldg 2607 Carwash O/W Sep
AOC S	VA Cemetery Dugged Area
AOC T	Building 1699

**Appendix A-5**

**List of Solid Waste Management Units and Areas of Concern clean closed under RCRA.**

SWMU/AOC No/Letter	SWMU/AOC Name
SWMU 7	Former HW Storage Bldg 2640
SWMU 8	Former HW Storage Bldg 2641
SWMU 9	Former HW Storage Bldg 2642
SWMU 10	Former HW Storage Bldg 2668
SWMU 13	Inactive 48 <sup>th</sup> EOD OB/OD Ground

**Appendix A-6**

**List of Solid Waste Management Units and Areas of Concern requiring Land Use Controls**

SWMU/AOC No/Letter	SWMU/AOC Name	Description of Corrective Action	Description of LUC	Corrective Action Document Selecting LUC
SWMU 1	Active Sanitary Landfill	- Dermal Cover - Land Use Controls (LUCs) - Monitoring Ground Water Methane LUCs	- no excavation or breaching of dermal cover - no unauthorized (activities not consistent with LUCs) site access - no withdrawal of groundwater - no residential use or residential development of the property	CMS (9/30/08)
SWMU 2	Inactive Sanitary Landfill-1	- Dermal cover - Land Use Controls (LUCs) - Monitoring Groundwater	- no excavation or breaching of dermal cover - no unauthorized (activities not consistent with LUCs) site access - no withdrawal of groundwater - no residential use or residential development of the property	CMS (4/4/08)

SWMU 3	Inactive Sanitary Landfill-2	<ul style="list-style-type: none"> <li>- Dermal Cover</li> <li>- Surficial Metal Removal</li> <li>- Land Use Controls (LUCs)</li> <li>- Monitoring Ground Water LUCs</li> </ul>	<ul style="list-style-type: none"> <li>- no excavation or breaching of dermal cover</li> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (9/30/08)
SWMU 5	Inactive WETSITE Landfill	<ul style="list-style-type: none"> <li>-Dermal Cover</li> <li>-GW monitoring (annual for 3 years)</li> </ul>	<ul style="list-style-type: none"> <li>-no excavation or breaching of the cover</li> <li>- no withdrawal of ground water</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (11/01/04)
SWMU 6	Tank Hill Landfill	<ul style="list-style-type: none"> <li>- Dermal cover</li> <li>- Land Use Controls (LUC)</li> <li>- Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>- no excavation or breaching of dermal cover</li> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (7/23/07)

SWMU 14	Weapons Cleaning Area	<ul style="list-style-type: none"> <li>- Enhanced Reductive Dechlorination (ERD)</li> <li>- Land Use Controls (LUCs)</li> <li>- Monitoring Ground Water Surface Water LUCs</li> </ul>	<ul style="list-style-type: none"> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (9/30/08)
SWMU 21	Construction Debris Landfill – Range 17	<ul style="list-style-type: none"> <li>- Dermal cover</li> <li>- Land Use Controls (LUC)</li> <li>- Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>- no excavation or breaching of dermal cover</li> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (7/23/07)
SWMU 48	Inactive Bldg 6586 Acid Pit	<ul style="list-style-type: none"> <li>- Soil / Surface Area Excavation</li> <li>- Surficial Cover</li> <li>- Land Use Controls (LUCs)</li> <li>- Monitoring Groundwater LUCs</li> </ul>	<ul style="list-style-type: none"> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (9/30/08)



SWMU 50	Former National Guard C&D Landfill	<ul style="list-style-type: none"> <li>- Dermal cover</li> <li>- Surface Debris Removal</li> <li>- Land Use Controls (LUC)</li> <li>- Monitoring</li> </ul>	<ul style="list-style-type: none"> <li>no excavation or breaching of dermal cover</li> <li>- no unauthorized (activities not consistent with LUCs) site access</li> <li>- no withdrawal of groundwater</li> <li>- no residential use or residential development of the property</li> </ul>	CMS (1/26/09)
AOC D	Camp Jackson Ranges	-Land Use Controls (LUCs)	<ul style="list-style-type: none"> <li>-Record of Environmental Consideration Process (REC Process)</li> <li>-Note in base master plan stating past small arms land use in past</li> <li>-Distributing Informational literature about past land use and what to do if small arms are found</li> </ul>	SI (5/14/2009)
AOC E	Small Arms Ranges East of Chestnut Road	-Land Use Controls (LUCs)	<ul style="list-style-type: none"> <li>-Record of Environmental Consideration Process (REC Process)</li> <li>-Note in base master plan stating past small arms land use in past</li> <li>-Distributing Informational literature about past land use and what to do if small arms are found</li> </ul>	SI (5/14/2009)

Swum 49	Former Weapons Pool Solvent Tank	-Excavation of impacted soil -Distribution of Calcium peroxide to aid in natural attenuation - Groundwater monitoring -Land Use Controls (LUCs)	- no unauthorized (activities not consistent with LUCs) site access - no withdrawal of groundwater - no residential use or residential development of the property	CMS(1/6/2011)
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Appendix A-7 List of Solid Waste Management Units and Areas of Concern requiring a Corrective Measure Study.	
SWMU/AOC No/Letter	SWMU/AOC Name